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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U.S. Patent No.: 6,893,617 B2

Issued: 17 May 2005

Inventor(s): Robert X. Li. et al.

Title: APPARATUS AND METHOD FOR RETENTION  
OF NON-THERMAL PLASMA REACTOR

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT  
FOR PTO MISTAKE (37 C.F.R. § 1.322(a))

and

REQUEST FOR ISSUANCE OF A CORRECTED PATENT  
(37 C.F.R. § 1.322(b))

ATTN.: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Certificate  
JUN 18 2007  
of Correction

Dear Sir:

It is noted that an error appears in this patent of a clerical nature or character, as more fully described below. It is believed to have occurred in good faith. Correction thereof does not involve such changes in the patent as would constitute new matter or would require re-examination.

The Patentees submit that the error occurred through the fault of the United States Patent and Trademark Office and is clearly cognizable in the records of the Office. This request is accompanied by documentation that unequivocally supports the Patentee's assertions. The Patentees hereby request that a Certificate of Correction be expeditiously issued.

Attached hereto is PTO/SB/44 in a form suitable for printing.

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**U.S. Patent No. 6,893,617 (DP-302466) - 2**

In essence, an unknown (to Patentees) and unrelated set of drawings has been substituted for the correct drawings provided by the Patentees during the examination process.

The Commissioner is respectfully requested to issue a Certificate of Correction for the above-identified patent, replacing the Figures 1, 2, 3A – 3C, 4, 5A – 5C, 6A – 6C, 7, 8, 9A, 9B, 10 and 11 (contained within sheets 1 of 17 through 17 of 17, inclusive), as well as a reprise of (unlabeled) Figures 1 and 11 appearing on the title page, erroneously included by the USPTO as part of the issued patent with the correct Figures 1 – 11 (contained within replacement sheets 1 of 7 through 7 of 7, inclusive), copies of which are submitted herewith.

Also submitted herewith is a copy of the original transmittal letter and postcard submitted with informal versions of these drawings by 37 C.F.R. 1.8 Certificate of Mailing on 19 September 2001.

The Patentees note that the originally submitted (informal) drawings were contained in the related Patent Application Publication No.: US 2002/0192127 A1 of 19 December 2002.

Also submitted herewith is a copy of the original Notice of Allowability, in which the Examiner accepted the drawings filed by the Patentees.

The Patentees submit that no new matter is introduced into the patent drawings, specification or claims by this communication.

A check of the image file wrapper on the USPTO's PAIR system shows that these drawings are true copies of those received by the USPTO on 21 September 2001.

**U.S. Patent No. 6,893,617 (DP-302466) - 3**

The Patentees believe that the different figures contained in the issued patent originated from a separate, unrelated application. This appears to have been through error on the part of the USPTO. Accordingly, the requested Certificate of Correction should be entered under 37 C.F.R. 1.322(a) without charge to the Patentees.

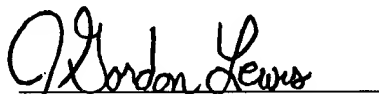
In addition to the forgoing, the Patentees request the Commissioner to issue a corrected patent under 37 C.F.R. 1.322(b), as a more appropriate form of Certificate of Correction, without expense to the Patentees.

Please send the validated Certificate to:

Paul L. Marshall  
Registration No.: 31,178  
Delphi Technologies, Inc.  
M/C 480.410.202  
5825 Delphi Drive  
Troy, MI 48098

Although the Patentees believe that no additional fees or expenses should be levied against them, the Commissioner is hereby authorized to charge any fees associated with this communication and/or credit any overpayments to Deposit Account No.: 50-0831.

Respectfully submitted,



J. Gordon Lewis  
Reg. No.: 28,735  
(248) 813-1234

JUN 18 2007

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 6,893,617

APPLICATION NO.: 09/881,277

ISSUE DATE : 17 May 2005

INVENTOR(S) : Robert X. Li et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

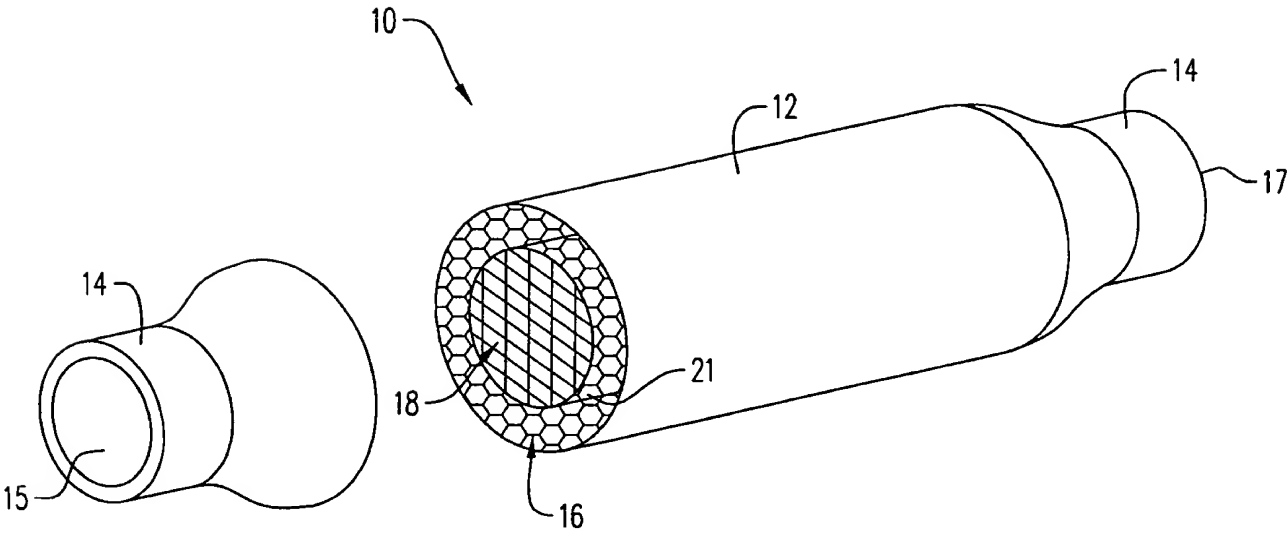
Delete all of the drawing figures contained on sheets 1 of 17 through 17 of 17, inclusive, and replace them with substitute sheets 1 of 7 through 7 of 7, inclusive, containing figures 1 - 11.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

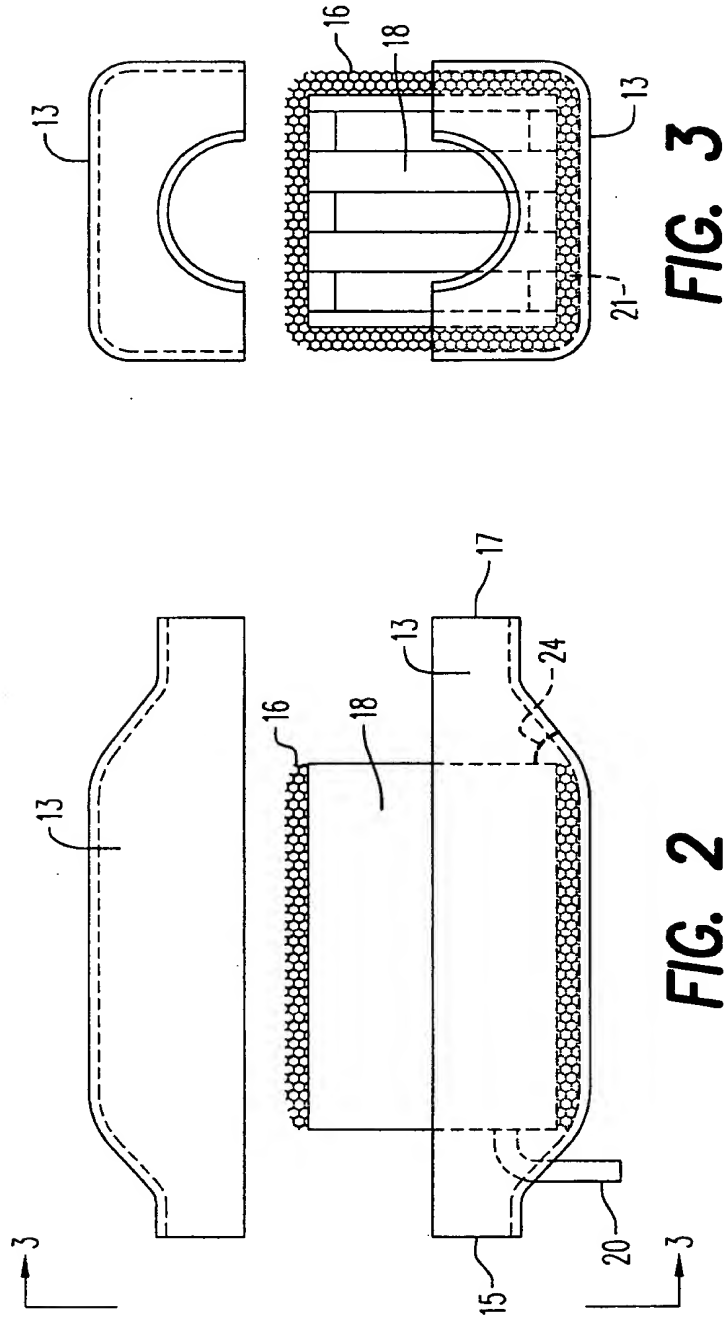
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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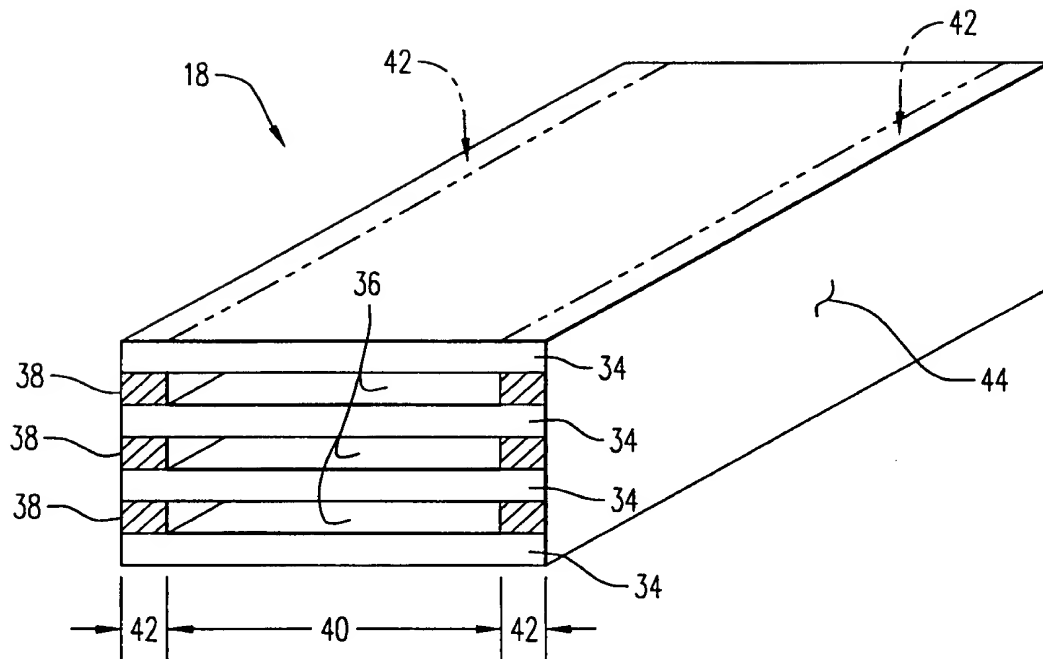
**FIG. 1**

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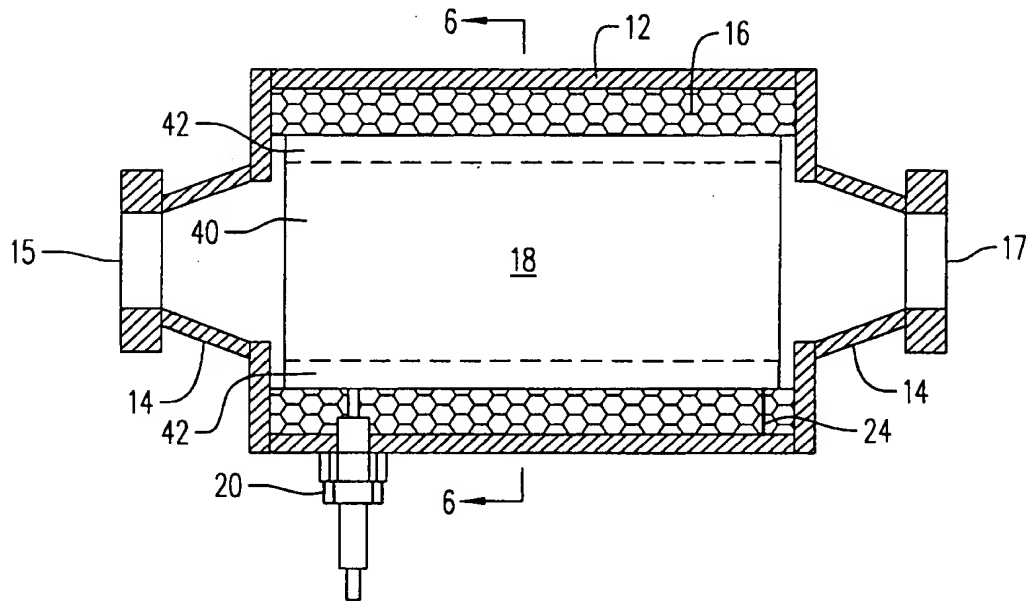
3/7



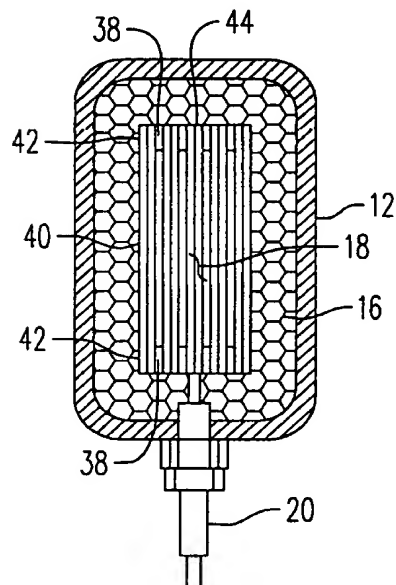
**FIG. 4**

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**FIG. 5**

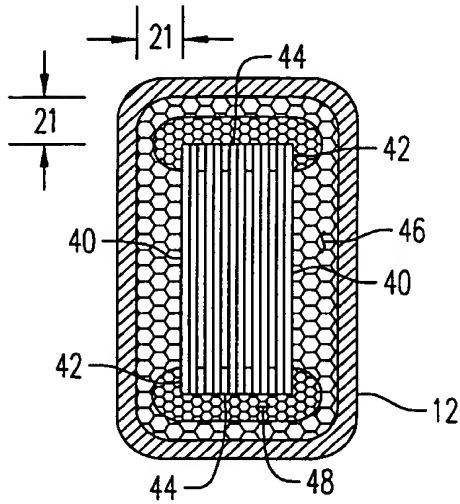


**FIG. 6**

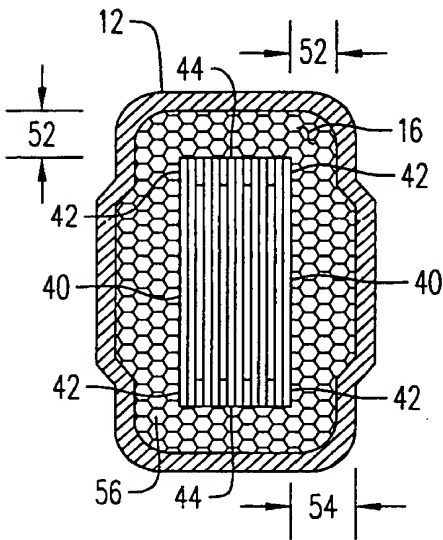
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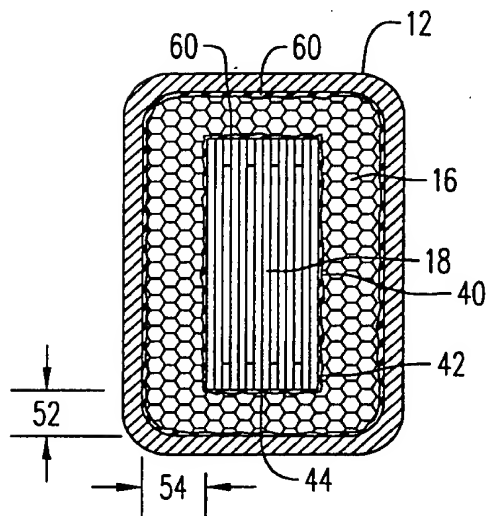
**FIG. 7**



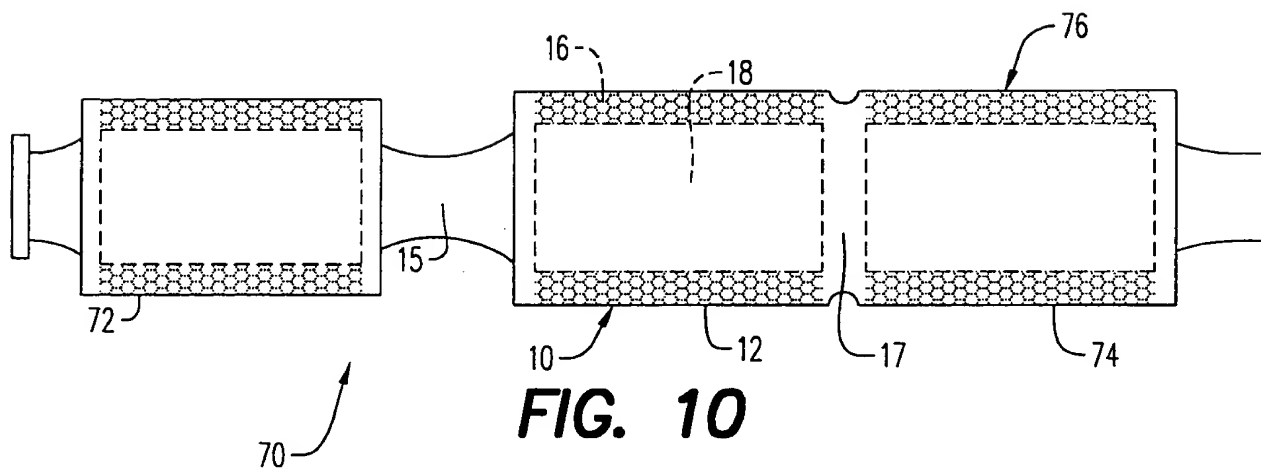
**FIG. 8**

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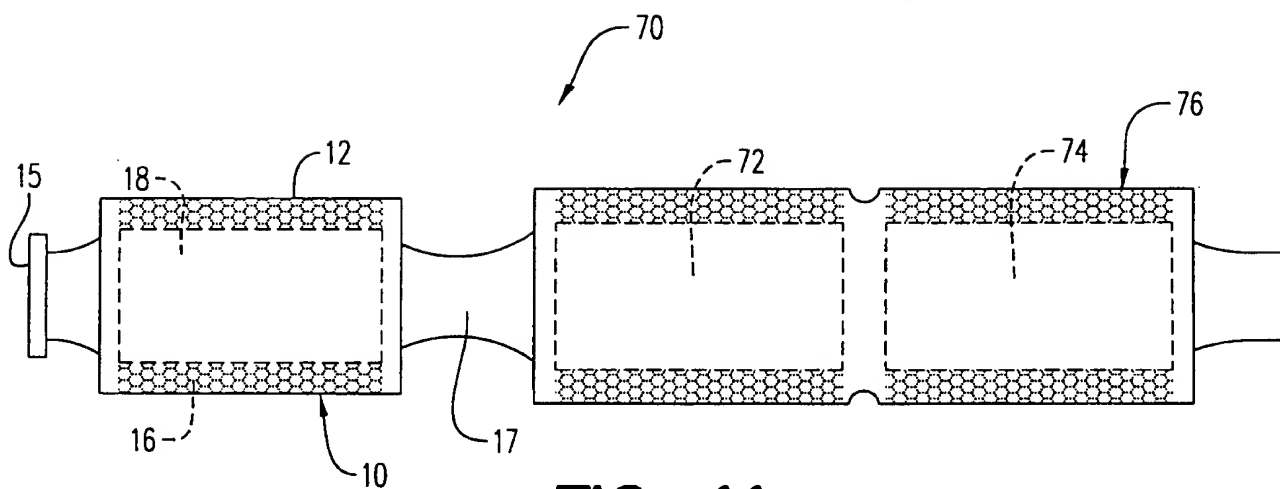
**FIG. 9**



**FIG. 10**

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**FIG. 11**

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**

Applicant(s): Robert X. Li, et al.

Docket No.

DP-302466 (DEP-0145)

Serial No.

N/A

Filing Date

N/A

Examiner

N/A

Group Art Unit

N/A

Invention: APPARATUS AND METHOD FOR RETENTION OF NON-THERMAL PLASMA REACTOR

I hereby certify that this Utility Patent Application*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Commissioner of Patents and Trademarks, Washington, D.C.

20231-0001 on JUNE 14, 2001*(Date)*LESLIE MOSCATELLO*(Typed or Printed Name of Person Mailing Correspondence)*

A handwritten signature in cursive script that reads "Leslie Moscatello".

*(Signature of Person Mailing Correspondence)*EL 748573015 US*("Express Mail" Mailing Label Number)*

Note: Each paper must have its own certificate of mailing.

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**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Large Entity)**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.  
DP-302466 (DEP-0145)Total Pages in this Submission  
35

JUN 14 2007

**TO THE ASSISTANT COMMISSIONER FOR PATENTS**Box Patent Application  
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**APPARATUS AND METHOD FOR RETENTION OF NON-THERMAL PLASMA REACTOR**

and invented by:

Robert X. Li  
Michael R. Foster  
David E. Nelson  
Alan G. TurekIf a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Enclosed are:

**Application Elements**

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 18 pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☐ Cross References to Related Applications (if applicable)
  - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
  - d. ☐ Reference to Microfiche Appendix (if applicable)
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings (if drawings filed)
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure

JUN 18 2007

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Large Entity)**

JUN 14 2007 (Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.  
DP-302466 (DEP-0145)

Total Pages in this Submission  
35

**Application Elements (Continued)**

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☐ Formal Number of Sheets \_\_\_\_\_
- b. ☒ Informal Number of Sheets 7
4. ☒ Oath or Declaration
- a. ☒ Newly executed (original or copy) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☐ With Power of Attorney ☒ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (usable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer Program in Microfiche (Appendix)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy (identical to computer copy)
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

**Accompanying Application Parts**

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(B) Statement (when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☒ Information Disclosure Statement/PTO-1449 ☒ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing

☐ First Class ☒ Express Mail (Specify Label No.): EL 748573015 US

JUN 18 2007



**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Large Entity)**

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

Docket No.  
DP-302466 (DEP-0145)

Total Pages in this Submission  
35

**Accompanying Application Parts (Continued)**

15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
16. ☐ Additional Enclosures *(please identify below):*

**Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)**

17. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

**Warning**

***An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.***

JUN 18 2007

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Large Entity)**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.  
DP-302466 (DEP-0145)

Total Pages in this Submission  
35

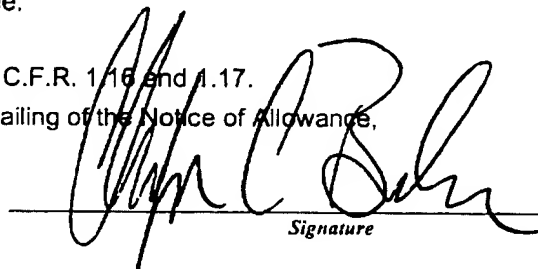


**Fee Calculation and Transmittal**

**CLAIMS AS FILED**

| For  | #Filed | #Allowed | #Extra | Rate      | Fee      |
|--|--------|----------|--------|-----------|----------|
| Total Claims   | 26     | - 20 =   | 6      | x \$18.00 | \$108.00 |
| Indep. Claims  | 4      | - 3 =    | 1      | x \$80.00 | \$80.00  |
| Multiple Dependent Claims (check if applicable) <input type="checkbox"/> |        |          |        |           | \$0.00   |
| BASIC FEE  |        |          |        |           | \$710.00 |
| OTHER FEE (specify purpose) _____  |        |          |        |           | \$0.00   |
| TOTAL FILING FEE   |        |          |        |           | \$898.00 |

- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 50-0831 as described below. A duplicate copy of this sheet is enclosed.
- ☒ Charge the amount of 898 as filing fee.
  - ☒ Credit any overpayment.
  - ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
  - ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

  
Signature

Christopher C. Boehm, Esq.  
Registration No. 41,624

Dated: June 14, 2001

Express Mail Label: EL 748573015 US  
cc:

JUN 18 2007





THE STAMP OF THE PATENT OFFICE, PLACED HEREON, ACKNOWLEDGES RECEIPT OF:

Attorney Docket No.: DP 302466 Date Mailed: June 14, 2007

Applicant: Foster

Serial No.: n/a

Filed: n/a

For: APPARATUS AND METHOD FOR RETENTION OF  
NON-THERMAL PLASMA

- ☐ Affidavit or ☐ Declaration
- ☒ Application for Patent including  
    4 pages spec., 26 claims
- ☒ Declaration and Power of Attorney or ☒ Oath
- ☐ Application for Intent-To-Use TM/SM
- ☐ Application for TM/SM Reg. w/specimens
- ☒ Certificate of Express Mail 37 CFR 1.10
- ☒ Express Mail No. 748 573 015 US
- ☒ Information Disclosure Statement
- ☒ PTO Form 1449, ☒ publications enclosed
- ☐ Power of Attorney
- ☐ Req. for Filing ☐ Continuation ☐ Divisional  
    Application Under 37 CR 1.60
- ☐ Verified Statement to Establish Small Entity Status
- ☐ Request for Drawing Correction
- ☒ Transmittal Letter (for duplicate)
- ☐ Other: \_\_\_\_\_

- ☐ Check for Filing Fee \$ \_\_\_\_\_
- ☐ Amendment/Response To Office Action
- ☐ Brief, \_\_\_\_\_ copies
- ☐ Assignment, check for \$ \_\_\_\_\_
- ☒ Assignment Recordation Cover Sheet
- ☐ Power of Attorney by Assignee
- ☒ Certificate of Filing (for 37 CFR 1.10)
- ☒ Drawings: \_\_\_\_\_ sheets
- ☐ ☐ Formal or ☒ Informal
- ☐ Issue Fee (for Informal)
- ☐ Notice of Appeal
- ☐ Petition for Extension of Time (\_\_\_\_\_ months)
- ☐ Priority Document
- ☐ Renewal Application TM/SM

PTO  
JUN 14 2007  
09/881277



RECEIVED  
JUN 15 2007  
CANTOR COLBURN LLP

JUN 18 2007



## Notice of Allowability

Application No.

09/881,277

Examiner

Kishor Mayekar

Applicant(s)

LI ET AL.

Art Unit

1753

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to paper filed 25 October 2004 and the interview of 8 December 2004.
2. ☒ The allowed claim(s) is/are 1-8 and 18-26.
3. ☒ The drawings filed on 14 June 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 6/01, 9/01 & 2/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 8 Dec. 2004
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

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